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INVESTIGATION OF ERTS/RBV IMAGERY FOR PHOTOMAPPING OF THE UNITED STATES

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Type I Progress Report for Period 1 September 1972 - 31 October 1972

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Type I Progress Report  
ERTS 1

- a. Title: Investigation of ERTS/RBV Imagery for Photomapping of the United States

ERTS-1 Proposal No.: SR 211

- b. GSFC ID No. of P.I.: 056

- c. Problems:

This investigator requested RBV imagery which included 9 1/2 x 9 1/2-inch scene corrected (precision processed) imagery. Because the RBV system is not functioning, MSS has been automatically substituted.

To date this investigator has received imagery for each of his four project areas; an insufficient amount, however, in any one area to completely cover a 1:1,000,000 scale I.M.W. (4° x 6°) sheet. The imagery received is in the form of 70 mm system corrected (bulk) negatives which are of extremely high density, and 9 1/2 x 9 1/2-inch paper positives. The negatives are used to generate enlarged, ratioed and/or rectified positives that are mosaicked to produce photomaps. However, the high density of the 70 mm negatives requires long exposure which results in blooming of high contrast features. Consequently, the standing materials order is being modified to include 9 1/2 x 9 1/2-inch positive transparencies from which negative transparencies can be made. The 9 1/2 x 9 1/2-inch size will also permit enlargement to 1:250,000 scale in one step with the Wild E-4 rectifier.

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d. Accomplishments:

Images received have been inspected for utility and indexed and filed for each project area. The positive prints generated from the 70 mm negatives are not acceptable for photomapping as explained in ~~Item 6 above~~. During the next reporting period, images will be rectified and/or ratioed and mosaicked at 1:1,000,000 scale for the production of photomaps. Photomaps will also be prepared at 1:500,000 scale and at 1:250,000 scale to determine the optimum application of ERTS imagery. Progress will depend on receipt of 9 1/2 x 9 1/2-inch material, or less dense 70 mm images.

e. Significant scientific results: N/A

f. Published articles and papers: N/A

g. Recommendations: N/A

h. Changes in Standing Order Forms: N/A

i. ERTS Image Descriptor Forms: N/A

j. Changes in Data Request Forms: None

k. DCP Status: N/A